

## Application to Participate in the Evaluation 1 of Latent Fingerprint Technologies Extended Feature Sets (ELFT-EFS Evaluation 1)

### 1. Who May Participate

- 1.1. Developers of latent fingerprint matcher software systems who fully participated in the ELFT-EFS Public Challenge are invited to participate in ELFT-EFS Evaluation 1. Full participation in the ELFT-EFS Public Challenge is defined as those who returned full or partial results according to the Public Challenge Test Plan<sup>1</sup> by the specified deadline (extended to 28 June 2009).
- 1.2. The latent fingerprint matching software need not be “operational,” nor a production system, nor commercially available. However, the system must, at a minimum, be a stable implementation capable of being “wrapped” (formatted) in the API specification that *National Institute of Standards and Technology (NIST)* has published<sup>2</sup> for this evaluation.
- 1.3. Anonymous participation will not be permitted. This means that signatories to this Agreement acknowledge that they understand that the results (see Section 6) of the evaluation of the software will be published with attribution to their organization.

### 2. How to Participate

2.1. In order to request participation in ELFT-EFS Evaluation 1, potential participants must fill out this Agreement, *Application to Participate in ELFT-EFS Evaluation 1*, identifying the Responsible Party and the Point of Contact, print and sign the form, and send to the location designated below.

2.1.1. The Responsible Party is an individual with the authority to commit the organization to the terms in this document.

2.1.2. The Point of Contact is an individual with detailed knowledge of the system applying for participation.

2.2. Upon receipt of the signed form by NIST, the organization will be classified as a “Participant”. NIST must receive the form by the due date described in the ELFT-EFS Evaluation 1 Test Plan Calendar. Registered Participants should download the small Validation Dataset available on the website<sup>3</sup>. Prior to submission of their *Software Development Kit (SDK)* the Participant needs to verify that a) their software executes on the validation data, and b) produces a candidate list in the desired format. The output of the validation data must be submitted to NIST along with the SDK. (NIST will supply the correct match to each search in the Validation Data. However, the submitted validation candidate list need not have the correct match appear on the candidate list.)

2.3. After the Participant has executed his software on the Validation Data, the Participants should send the software (SDK) together with the validation output to NIST. Software can be sent by email to [latent-efs@nist.gov](mailto:latent-efs@nist.gov), or on CD to:

Evaluation of Latent Fingerprint Technologies Test Liaison

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<sup>1</sup> The ELFT-EFS Public Challenge Test Plan is available at [http://fingerprint.nist.gov/latent/elft-efs/ELFT-EFSPublicChallenge\\_2009-04-23.pdf](http://fingerprint.nist.gov/latent/elft-efs/ELFT-EFSPublicChallenge_2009-04-23.pdf)

<sup>2</sup> The ELFT-EFS Evaluation 1 Test Plan, API, and Calendar are available at [http://fingerprint.nist.gov/latent/elft-efs/ELFT-EFS\\_TestPlan\\_2009.pdf](http://fingerprint.nist.gov/latent/elft-efs/ELFT-EFS_TestPlan_2009.pdf)

<sup>3</sup> The ELFT-EFS website is at <http://fingerprint.nist.gov/latent/elft-efs>

National Institute of Standards and Technology  
Information Access Division (894)  
100 Bureau Drive, Stop 8940  
Gaithersburg, MD 20899-8940

2.4. Participants shall submit one SDK set only, as specified in the test plan. The set comprises:

- one SDK for exemplar feature extraction and exemplar enrollment
- one SDK for latent feature extraction
- one SDK for latent 1-to-N search

Organizations shall fill out one copy of this form (*Application to Participate in ELFT-EFS Evaluation 1*) only.

2.5. Software submitted must be compliant with the API specified by [http://fingerprint.nist.gov/latent/elft-efs/ELFT-EFS\\_TestPlan\\_2009.pdf](http://fingerprint.nist.gov/latent/elft-efs/ELFT-EFS_TestPlan_2009.pdf).

Upon receipt of the SDK and validation output, NIST will attempt to reproduce the output by executing the SDK on the validation data, using a NIST computer. In the event of disagreement in the output, or other difficulties, the Participant will be notified.

2.7 In the event software is found to be non-functional or non-compliant with the API, or where the Validation Dataset results cannot be replicated by NIST, Participants will be notified with a detailed description of the problem(s) and given a reasonable opportunity to resubmit (as time allows) according to the discretion of the ELFT-EFS Test Liaison.

### 3. Points of Contact

3.1. The ELFT-EFS Test Liaison is the government point of contact for ELFT-EFS Evaluation 1.

3.2. All correspondence should be directed to [latent-efs@nist.gov](mailto:latent-efs@nist.gov), which will be received by the ELFT-EFS Test Liaison and other ELFT-EFS personnel.

3.3. These correspondences may be posted to the *FAQ (Frequently Asked Questions)* document<sup>4</sup> available on the ELFT-EFS website at the discretion of the ELFT-EFS Test Liaison. The identity of those persons or organizations whose correspondences lead to FAQ postings will not be made public in the FAQ.

### 4. Access to Validation Data

4.1. Validation Data is supplied to Participants to assist in preparing for ELFT-EFS Evaluation 1.

4.2. The fingerprints in the Validation Data are representative of the ELFT-EFS Evaluation 1 Test Data **only** in format. Image quality, collection device and other characteristics may vary between the Validation and Test Datasets.

### 5. Access to Test Data

5.1 The ELFT-EFS Evaluation 1 Test Datasets are protected under the Privacy Act (5 U.S.C. 552a), and will be treated as *Sensitive but Unclassified* and/or *Law Enforcement Sensitive*.

5.2 ELFT-EFS Evaluation 1 Participants will have no access to Test Data, either before, during or after the test.

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<sup>4</sup> The ELFT-EFS Evaluation 1 FAQ is available at [http://fingerprint.nist.gov/latent/elft-efs/FAQ\\_Eval1\\_2009.pdf](http://fingerprint.nist.gov/latent/elft-efs/FAQ_Eval1_2009.pdf)

## 6. Reporting of ELFT-EFS Evaluation 1 Results

6.1 The Government will combine all results into a Final Report. The *ELFT-EFS Evaluation 1 Final Report* will contain, at a minimum, descriptive information concerning ELFT-EFS, descriptions of each experiment, and aggregate test results. NIST will use CMC and DET (ROC) performance metrics as the primary indicators of one-to-many identification search accuracy. NIST will also report enrollment and search timing information. NIST may compute and report other aggregate statistics.

6.2 Participants will have an opportunity to review and comment on the Final Report. Participants' comments will be either incorporated into the main body of the report (if it is decided NIST reported in error) or published as an addendum. Comments will be attributed to the participant.

6.3. After the release of the ELFT-EFS Evaluation 1 Final Report, Participants may decide to use the results for their own purposes. Such results shall be accompanied by the following phrase: "Results shown from the Evaluation 1 of Latent Fingerprint Technologies Extended Feature Sets (ELFT-EFS Evaluation 1) do not constitute endorsement of any particular system by the U. S. Government." Such results shall also be accompanied by the Internet address (URL) of the ELFT-EFS Evaluation 1 Final Report on the ELFT-EFS website.

6.4. Any data obtained during ELFT-EFS Evaluation 1 (excepting the SDK itself), as well as any documentation required by the Government from the participants, becomes the property of the Government. Participants will not possess a proprietary interest in the data and/or submitted documentation.

6.5. With the signing of this form, Participants attest that they will not file any ELFT-EFS Evaluation 1-related claim against ELFT-EFS Sponsors, Supporters, staff, contractors, or agency of the U.S. Government, or otherwise seek compensation for any equipment, materials, supplies, information, travel, labor and/or other participant provided services.

6.6. The Government is not bound or obligated to follow any recommendations that may be submitted by the Participant. The United States Government, or any individual agency, is not bound, nor is it obligated, in any way to give any special consideration to ELFT-EFS Evaluation 1 Participants on future contracts.

6.7. With the signing of this form, Participants realize that any test details and/or modifications that are provided in the ELFT-EFS website supersede the information on this form.

6.8. With the signing of this form, Participants realize that they can withdraw from the ELFT-EFS Evaluation 1 at any time prior to 16 August 2009, without their participation and withdrawal being documented in the ELFT-EFS Evaluation 1 Final Report.

6.9. NIST will use the Participants SDK software only for the agreed-upon testing, and in the event errors are subsequently found, to rerun prior tests and resolve those errors.

6.10. NIST agrees not to use the Participants software for purposes other than indicated above, without express permission by the Participant.

6.11. Please mail the completed and signed form to:

Via Mail:

Evaluation of Latent Fingerprint Technologies Test (ELFT-EFS) Liaison  
National Institute of Standards and Technology  
Information Access Division (894)  
100 Bureau Drive, Stop 8940  
Gaithersburg, MD 20899-8940

**Request to Participate**

<b>Company / Organization Name</b>
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**Responsible Party**

<b>Title</b>	<b>First Name</b>	<b>MI</b>	<b>Last Name</b>	<b>Suffix</b>
<b>Street/Mailing Address</b>				
<b>City</b>		<b>State</b>	<b>Zip Code</b>	
<b>Phone Number</b>	<b>Fax Number</b>		<b>Email Address</b>	

**Point of Contact: Check if same as Responsible Party above** ☐

<b>Title</b>	<b>First Name</b>	<b>MI</b>	<b>Last Name</b>	<b>Suffix</b>
<b>Street/Mailing Address</b>				
<b>City</b>		<b>State</b>	<b>Zip Code</b>	
<b>Phone Number</b>	<b>Fax Number</b>		<b>Email Address</b>	

With my signature, I hereby request consideration as a Participant in the Evaluation 1 of Latent Fingerprint Technologies Extended Feature Sets (ELFT-EFS Evaluation 1), and I am authorizing my company or organization to participate in ELFT-EFS Evaluation 1 according to the rules and limitations listed in this document.

With my signature, I also state that I have the authority to accept the terms stated in this document

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SIGNATURE OF RESPONSIBLE PARTY

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DATE